

Rhepanol® hg



Product name:	Rhepanol® hg
Manufacturer:	FDT FlachdachTechnologie GmbH & Co. KG Eisenbahnstraße 6-8 68199 Mannheim Germany
Production plant:	Mannheim
Type of application:	For sealing ballasted, gravelled or green roofs. These sealing membranes can be used as a moisture barrier (type A) and as a ground water barrier (type T). For the installation, the application guidelines of the manufacturer have to be observed.
FPC certificate no.:	1343-CPD-K06-0660.10 1343-CPD-K06-0660.11 1343-CPD-K06-0660.12 1343-CPD-K06-0660.18
FPC issue of certification:	06
European standard:	EN 13956/EN 13967
Product description:	Synthetic roofing membrane made of PIB with glass fleece reinforcement and compatible with bitumen. Effective thickness 1.5/1.8 mm.
Standard membrane dimensions:	15 m x 2.05 m x 1.5 mm (1.8 mm)

Rhepanol® hg 1.5 mm (1.8 mm)

Properties	EN standard	Results
External fire performance	DIN CEN/TS 1187	no standard
Reaction to fire	DIN EN ISO 11925-2 DIN EN 13501-1	class E
Water vapour property μ	DIN EN 1931 (method B)	$\geq 160,000$
Tensile strength	DIN EN 12311-2 (method B)	$\geq 4 \text{ N/mm}^2$
Elongation at break	DIN EN 12311-2 (method B)	$\geq 400\%$
Joint peel resistance	DIN EN 12316-2	$\geq 150 \text{ N/50 mm}$
Joint shear resistance	DIN EN 12317-2	$\geq 200 \text{ N/50 mm}$ (fracture outside the joint area)
Resistance to impact rigid substrate flexible substrate	DIN EN 12691	$\geq 700 \text{ mm}$ $\geq 700 \text{ mm}$
Resistance to static load	DIN EN 12730 (method A/B)	$\geq 20 \text{ kg}$
Hail resistance rigid substrate flexible substrate	DIN EN 13583	$\geq 20 \text{ m/s}$ $\geq 30 \text{ m/s}$
Tear resistance	DIN EN 12310-2	$\geq 150 \text{ N}$
Resistance to root penetration	FLL DIN EN 13948	root- and rhizome-resistant
Dimensional stability	DIN EN 1107-2	$\leq 0.5\%$
Foldability at low temperature	DIN EN 495-5	$\leq -40 \text{ }^\circ\text{C}$ (foldability up to $-60 \text{ }^\circ\text{C}$ proofed by external testing laboratory)
Exposure to bitumen	DIN EN 1548	passed
Chemical resistance	DIN EN 1847 (List annexe C)	passed
UV exposure	DIN EN 1297	class 0 (5,000 h)
Watertightness	DIN EN 1928 (method B)	$\geq 400 \text{ kPa}$

FDT legal notice

We refer emphatically to the fact, that all details mentioned, especially the application and utilisation recommendation for the products and their system accessories, have been developed under normal conditions, and based on our knowledge and experience. Appropriate storage and usage of the products are assumed. A warranty or reliability of a finished project cannot be deduced because of varying materials, substrates and differing work conditions, neither by any indications nor from verbal statements, irrespective of any legal positions. For the possible accusation that FDT acted intentionally or grossly negligent, the user has to supply evidence that they provided FDT with all information and details necessary for an appropriate and correct evaluation through FDT in written form, immediately available and complete. The user is responsible for ensuring that the products are suitable for the given application. It is FDT's right to change product specifications without notice. Property rights of third parties are to be considered. In addition our particular sales and delivery terms are valid. The latest version of our product data sheet is obligatory, which can be requested directly through FDT.

All information as well as all technical and drawing data comply with current technical standards and are based on our experience. National standards and regulations must be observed.

Technical changes reserved. As of May 2014. © 2014 FDT FlachdachTechnologie GmbH & Co. KG, Mannheim, Germany

Product information

Rhepanol hg – sealing in loose-laid layer build-up with ballast and roof garden system

Rhepanol hg is a roofing membrane made of polyisobutylene (PIB) according to DIN EN 13956, and a waterproofing membrane made of polyisobutylene (PIB) according to DIN EN 13967. The only difference is that Rhepanol hg reinforcement is not achieved by a fleece backing, but by a central glass fleece reinforcement. Furthermore, Rhepanol hg is optimised for hot-air application. So for joining the seams only hot-air welding is used. Owing to the outstanding material characteristics, roofing membranes Rhepanol hg are suitable for single-ply application.

Characteristics

- Long-term proven material polyisobutylene (PIB). A roofing membrane following the standard DIN EN 13956 according to the General Building Construction Supervision Test Certificate ABP-No. P-K 021/03.11 MPA Darmstadt
- Root- and rhizome-resistant according to the FLL method and DIN EN 13948
- Compatible with bitumen
- Highly resistant to perforation
- Certified in a life cycle assessment according to DIN EN ISO 14040 ff
- Free from plasticisers and halogen fire-proofing agents
- Reaction to fire: class E according to DIN EN 13501-1
- Permanently resistant to UV radiation
- Hail-resistant according to EN 13583
- Compatible with all kinds of insulation materials
- Flexible at temperatures as low as –60 °C
- Hot-air weldable
- Dimensionally stable due to the glass fleece reinforcement
- Application without open flame
- Compatible with Rhepanol fk
- Certified with an Environmental Product Declaration (EPD) according to ISO 14025 and EN 15804

Quality assurance

Rhepanol hg is subject to constant in-house and external quality control. The in-house quality assurance system for the whole company has been certified according to DIN EN ISO 9001, the world's most strict quality standard, and is constantly monitored by TÜV SÜD Management Service GmbH.

Range of application

Rhepanol hg is used as a roof sealing in loose-laid layer build-up for ballasted, gravelled or roof garden systems.

Ecology and environment:

Rhepanol hg has gone through a life cycle assessment according to DIN EN ISO 14040 ff. carried out by the independent institute C.A.U. GmbH (Gesellschaft für Consulting und Analytik im Umweltbereich) (Company for Ecological Consulting and Analytics Ltd). FDT will be glad to send you on request a summary of the life cycle assessment and the Environmental Product Declaration. Rhepanol is not a dangerous good according to the EU Ordinance on Hazardous Substances.

SIG Design & Technology

Mannheim House
Gelders hall Road
Shepshed
Leicestershire LE12 9NH
Tel 01509 505714
Fax 01509 505475
www.singleply.co.uk